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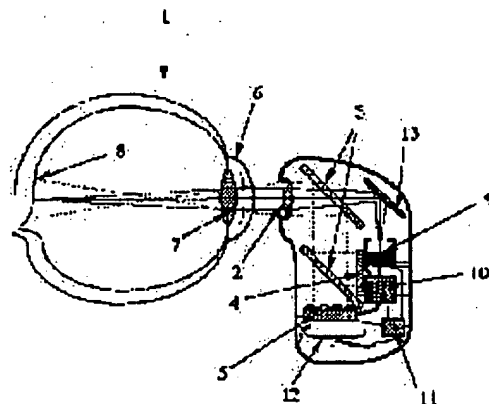
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(54) BLOOD SUGAR GAUGE

(57)Abstract:

PROBLEM TO BE SOLVED: To measure a correct blood sugar value by use of blood vessels existing in an eyeground by providing a radiation means to radiate light to the blood vessels existing in the eyeground from the outside of a cornea, and a detection means to detect reflection light of the light radiated by the radiation means.

SOLUTION: A device is provided with a reference light and measuring light emitting element 5 as a radiation means to radiate reference light and measuring light, so a light emission type character display panel 4 is observed by a subject person at a subject eye 1 through a convex lens 2 and half mirrors 3a, 3b as beam splitters. The reference light and near infrared light radiated to reach an eyeground 8 are reflected on the eyeground 8 to be reflected to go through the reference light and near infrared light reaches through a lens 7, a cornea 6, the convex lens 2, the half mirror 3a, and a mirror 13 to reach a reference light and near infrared light sensor 9, and reflection light strength of the reference light and measured light at the time is converted into a blood sugar value by an operation processing circuit 10, and the blood sugar value is displayed in the character display panel 4.



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(54) 【発明の名称】 血糖計

(57) 【要約】

【課題】 血糖値の眼底に存する血管を対象にした測定であり、非観血測定であるにも関わらず、観血測定と同等の精度および応答速度が得られる血糖計を實現することである。

【解決手段】 発光型文字表示板4、リファレンス光及び近赤外計測光発光素子5及び光センサ9各々は凸レンズ2の光軸上にあり、凸レンズ2、ハーフミラー3a、3b及びミラー13を介して光センサ9および演算処理回路10により血糖値が自動計測され、その結果が表示される発光型文字表示板4を備えたものである。

